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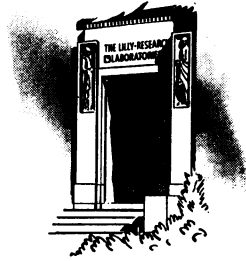
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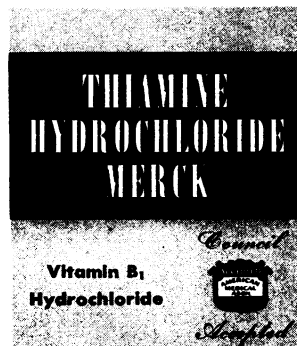
Thus does Dr. R. R. Williams recall* his early experiences with chemical

fractionations of rice polish in cases of infantile beriberi. Despite these dramatic results, it is now known that crude rice polish extracts contain only 1 part of thiamin chloride in 50,000.

Today, as a result of the brilliant research which culminated in the synthesis of thiamin chloride in the Merck Research Laboratories by Dr. Williams and his associates, the physician commands a potent therapeutic agent which is identical in every respect with the naturally occurring vitamin in its pure state.

*Williams, R.R.: *Indust. & Eng. Chem.* 29:980-984, Sept. 1937.

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"The year 1916 goes far back into vitamin history. Chick, Hume and others had found Marmite, the autolyzed extract from brewers' yeast (sold in America as Vegex), to be comparable with brewers' yeast in Vitamin B."

"Hygiene of the War," Volume 11, Official British History of the War, contains a report on yeast and yeast extracts as important to the physician today as to the army surgeon then. This report, Chapter 3, pages 83 and 84, recounts:

"In June, 1916, the officer then in charge of the Hygiene Department of the Royal Army Medical College, Lieut.-Colonel Monkton Copeman, reported that a commercial extract of yeast, marmite, had distinct advantages over yeast in that it remained practically unchanged even when exposed to the air, while yeast preparations deteriorated and in some cases underwent putrefactive changes; its bulk also was much smaller. Marmite is a pure extract of yeast made by submitting purified brewers' yeast to a special digestive process and then evaporating it down under reduced pressure to the required consistency. The resulting product is almost indistinguishable in appearance, smell, and flavour from extract of meat. Chemically, apart from the question of vitamins, it differs from extract of meat in not containing any creatine or creatinine. * * *

"Miss Chick and Miss Hume in their work on the distribution of anti-beri-beri vitamins found that marmite was amongst the potent substances tested. * * *

"As a result of a conference with the manufacturers and many tests in the Royal Army Medical College, a solidified preparation of marmite was produced and put up in half-ounce cubes or tablets which were so flavored that they could be eaten in this form, or if preferred, with bread or biscuit. The tablets could also be used for making soup. They each contained 50 per cent of marmite, or $\frac{1}{4}$ oz. in each cube, which represented the active vitamins in $3\frac{1}{2}$ oz. of yeast; consequently the eating of half a tablet twice a week apparently sufficed for prevention of beri-beri, the rations issued being otherwise not absolutely devoid of vitamin. One tablet daily would be necessary in a diet devoid of anti-neuritic vitamin."

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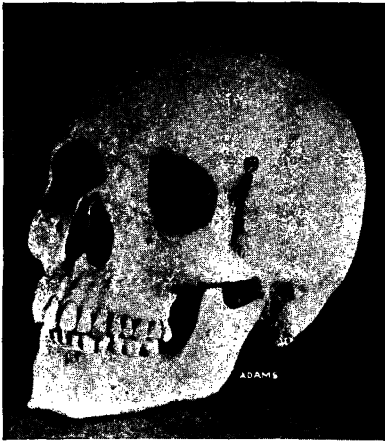
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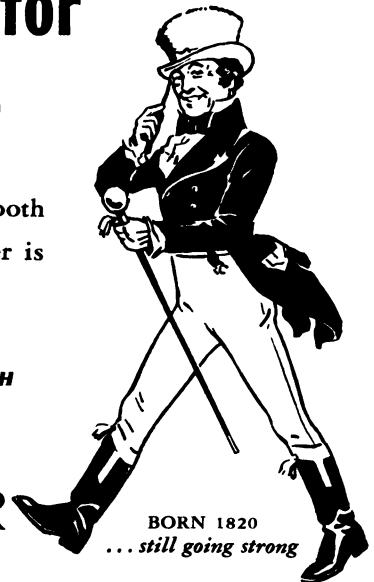
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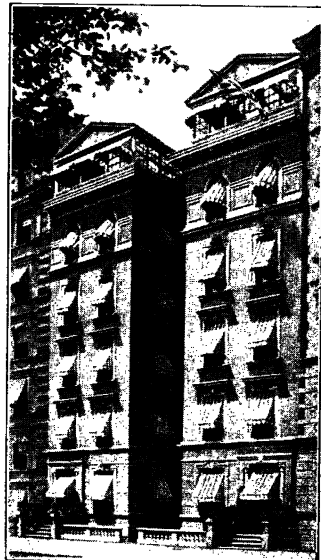
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Amniotin

... a valuable adjunct in treating gonorrheal vaginitis in children

The normal child's vagina is lined with a delicate squamous epithelium four to six layers in depth, uncornified and moistened by secretions slightly alkaline in reaction, providing a fertile medium for the development of invading gonococci.

The basis of treatment of gonorrheal vulvovaginitis with estrogens depends on their property of creating a temporary maturity environment in the child's vagina, converting the thin mucosa into a far thicker and partly cornified structure as in the adult. The vaginal secretion with adequate treatment becomes acid and glycogen appears in the epithelial cells. The local use of estrogenic substance in treating gonorrheal vaginitis in children is to be preferred.

The intravaginal use of a special children's size Amniotin pessary (suppository) or Amniotin capsule general-

ly effects epithelial response with disappearance of the discharge in about 20 to 25 days. Hospitalization is not necessary; cost of treatment is very low, and the vaginal mucosa returns to its normal infantile state after administration of the hormone is stopped.

How Supplied

Amniotin for the treatment of gonorrheal vaginitis in children is available in the following dosage forms:

Amniotin Pessaries (children's size) package of 12, each Pessary (vaginal suppository) equivalent to 1000 International units of Estrone.

Amniotin Capsules—1000, 2000, 4000 International units in packages of 20, 100, 300, 500 and 1000.

For literature write Professional Service Department, E. R. Squibb & Sons, 745 Fifth Avenue, New York, N. Y.

Amniotin

A SQUIBB PREPARATION OF ESTROGENIC SUBSTANCES
OBTAINED FROM THE URINE OF PREGNANT MARES



WHEN DIETS RUN TO TOAST AND TEA!

CHARACTERISTIC of elderly individuals is the inclination to "bog-down" on a balanced diet, lessen the daily food intake and exclude important nutritional factors essential to their continued well-being. Add to this a dwindling efficiency of absorption and utilization of food, and the result is frequently ominous—a subclinical deficiency that requires treatment with vitamins to supplement the corrected diet.



Supplied in regular bottles of 120 cc. and dropper top bottles of 50 cc.

When an effective form of B complex is indicated in clinical and subclinical deficiencies, consider B-Complex SMACO.* It is a *balanced*, concentrated form of B complex, biologically standardized so that the known factors (thiamine hydrochloride, riboflavin, nicotinic acid, pyridoxin [vitamin B₆] and pantothenic acid) are provided in proportion to requirements believed necessary for optimal nutrition. B-Complex SMACO contains all B factors which a natural B complex can be depended upon to supply.

Write for "SMACO" B-Complex. It's available on prescription at all pharmacies.

SUGGESTED DOSAGE: 1 to 3 teaspoonfuls daily.



REG. U. S. PAT. OFF.

*The word SMACO is the registered trade mark which distinguishes the fine products prepared by S.M.A. Corporation, Biochemical Division, Chicago, Ill.

S. M. A. CORPORATION *Biochemical Division* **CHICAGO, ILLINOIS**

Certain Dangers in Feeding..

CRYSTALLINE VITAMINS

vs.

VITAMIN-B COMPLEX in Native Forms

From the Univ. of California, Dr. Agnes Fay Morgan
has reported in "Science", March 14, 1941, p. 261—

Even after feeding five synthetic vitamins—thiamin, riboflavin, pyridoxin, nicotinic acid and pantothenic acid—the animals did not thrive without one or more of the vitamins of the B-complex. Dr. Morgan concludes: "Attention should be given to the possible danger of the administration of large amounts of certain vitamins such as nicotinic acid to persons subsisting on diets having multiple deficiencies. Fortification of foods with those vitamins such as thiamin or nicotinic acid which are available in large quantities may precipitate conditions worse than the subacute deficiency state produced by the usual diet balanced in its inadequacies. Improvement in all directions equally is essential."

2 PROVEN NATIVE B-COMPLEX SOURCES

Brewers' Yeast (Harris)

1. The Harris yeast was used by Goldberger,¹ Tanner and associates in their curative results with pellagra cases.

2. With this brand of yeast, Spies,² Blankenhorn, Cooper and others reduced the mortality of pellagra from 54 to 6%. With addition of the crystalline vitamins Spies has not announced any greater reduction in mortality.

3. With Yeast Vitamine (Harris) Tablets, H. J. Gerstenberger³ reported successful treatment of Herpes Labialis and Herpetic Stomatitis. Clinical manifestations suggested a relationship to pellagra.

Each gram contains:

60 units of B₁ (International), 30 units of B₂ (Sherman), Vitamin B₆, Pantothenic Acid, Nicotinic Acid.

POWDER OR 7½ GRAIN BLOCKS
6 OZ. — 13 OZ. — 5 LB. TINS

B-Complex Syrup

Alcoholic extract of rice polishings. The oldest B-complex known to medical practice. Used for beriberi in the Orient 25 years ago by the American Government—in the Philippines—China and Japan.

DELICIOUS — PROVEN — SAFE

Invaluable as a corrective of anorexia or B₁ deficiency in children or as a dietary adjunct for convalescents. *They like it!!!*

Each teaspoonful contains:

260 International Units of B₁, 40 Gamma of B₂, 500 Gamma of B₆, with cell salts of rice.

4 OZ. — 8 OZ.
1 LB. BOTTLES

Samples Free to Physicians or Special Prices Direct for Their Personal Uses

FOR SPECIFIC TREATMENT, THE CRYSTALLINE VITAMINS ARE OFFERED IN TABLET FORM —
CUSTOMARY DOSES — THIAMIN B₁, RIBOFLAVIN B₂, NICOTINIC ACID, ASCORBIC ACID

1. U.S. Pub. H. Reports, Jan. 1925.
2. Jr. A.M.A. 104-16-1377-1935.
3. Am. Jr. Dis. Children, Oct. 1923.

THE HARRIS LABORATORIES

TUCKAHOE

SINCE 1919

NEW YORK

FOUNDERS of VITAMINS for MEDICAL USE

KARO ADVANTAGES IN INFANT FEEDING

1. *Minimum Fermentation*—"The dextrin is not irritating to mucous membranes, easily digested without undue fermentation in the intestinal tract, converted into maltose and finally into dextrose before absorption. The amounts of maltose and dextrose, present or formed, and of cane sugar are rarely sufficient to produce irritation or fermentation."

Kugelmass: "Newer Nutrition in Pediatric Practice."
J. B. Lippincott Co., Philadelphia, 1940, p. 334.

2. *Maximum Assimilation*—Metabolic studies of experimental animals may have valuable implications for infant nutrition. For example, "the relative assimilation values of mixed sugars per 100 gms. of body weight are as follows: Dextrin and maltose 1.32; dextrin and dextrose 1.32; sucrose 0.76; fructose 0.50; lactose 0.16 and galactose 0.10."

Ariyama & Takahasi, Biochemische, Zeitschrift, vol. 216, p. 269, 1929.

3. *Ready Utilization*—"Karo syrup may be fed in large amounts without danger and is, at the same time, readily utilized. In our experience, it has been the most satisfactory form of carbohydrate for the feeding of normal and most sick infants."

Marriott: "Infant Nutrition."
C. V. Mosby Co., St. Louis, 1930, p. 45.



THE CHEMICAL COMPOSITION OF KARO IN GLASS AND IN TINS IS IDENTICAL

Dextrins.....	37%	1 oz. volume....	40 grams
Maltose.....	18%		120 cal.
Dextrose.....	12%	1 oz. wt.....	28 grams
Sucrose.....	4%		90 cal.
Invert Sugar.....	3%	1 teaspoon.....	20 cal.
Minerals.....	0.6%	1 tablespoon....	60 cal.
Moisture.....	25%		
(Karo—Blue Label)			

CORN PRODUCTS SALES COMPANY • 17 BATTERY PLACE, NEW YORK CITY